

# Important | Coursera

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**Amazon Web Services (AWS)** is a subsidiary of Amazon providing on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis. These cloud computing web services provide a variety of basic abstract technical infrastructure and distributed computing building blocks and tools.

Note: To avoid distraction for set up during the course, we would recommend that you create an Amazon AWS account beforehand. Amazon AWS provides a free tier option for 1 year & the course materials will utilize services that fall under the free tier option.

**Amazon Relational Database Service (Amazon RDS)** makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security, and compatibility they need.

**What is a database instance (DB instance)?** You can think of a DB instance as a database environment in the cloud with the compute and storage resources you specify. You can create and delete DB instances, define/refine infrastructure attributes of your DB instance(s), and control access and security

**Security groups** act as a firewall for associated instances, controlling both inbound and outbound traffic at the instance level. You must add rules to a security group that enables you to connect to your instance from your IP address using SSH. You can also add rules that allow inbound and outbound HTTP and HTTPS access from anywhere. **DBeaver** is a SQL client software application and a database administration tool. For relational databases, it uses the JDBC application programming interface to interact with databases via a JDBC driver.